



FUTUR-RUBBER BINDER

ONE-COMPONENT POLYURETHANE RESIN TO ADHERE RUBBER AND EPDM PARTICLES

One-component polyurethane resin that cures with ambient humidity. It is a 100% solids product, with low viscosity and produces a very elastic and hydrophobic membrane with excellent adhesion to EPDM or rubber granules. The product does not contain any toxic monomers nor does it give off bad odors.

PROPERTIES

- Very good adhesion with EPDM and Rubber granules.
- Excellent resistance to weather and UV rays.
- Very good resistance to extreme temperatures (between -40°C and +80°C).
Max shock temperature 200°C.
- Great elasticity.
- Excellent mechanical properties, high resistance to tension and breakage, high abrasion resistance

PHYSICAL-CHEMICAL CHARACTERISTICS

Appearance*:	Liquid
Presentation:	20 and 200 L containers
Chemical nature:	Polyurethane 100% solids
Density at 20 °C*:	1,050 Kg/L (20 °C, ASTM D1475)
Viscosity:	2500-3000 cP (25 °C, ASTM D2196-86)
Mixing ratio with EPDM and rubber:	9/1 by weight
Pot-Life:	20 minutes (25°C, 55% RH)
Touch dry:	2 hours
Repainted:	3-24 hours (25 °C)
Total curing:	7 days
Dry Product Data:	
Support temperature:	> +5 °C < +35 °C
Service temperature:	+40 °C < to +80 °C
Relative humidity:	< 85%
Support humidity:	< 10%
Breaking temperature:	200 °C
Elongation at break:	35 N/mm ² (ASTM D412)
Elasticity:	> 700 (ASTM D412)
Transmission of water vapor:	0.8 g/m ² .h (ASTM E96)

* Quality specifications.

MODE OF USE



Before applying the product, check that the support is clean and free of traces of oil, grease, silicone, contaminating waxes or soil materials. If repair is needed, apply appropriate repair mortars.

It is necessary to start from a porous concrete support, without grout and free of curing liquids. Minimum compressive strength of concrete: 15 N/mm². Minimum tensile strength of concrete: 1 N/mm².

If in doubt, carry out a test before application.

Before applying, confirm that the temperature and humidity requirements are as required. The support must have a maximum residual humidity. Primer: We recommend using a primer appropriate to the characteristics of the support. Let dry completely before applying. (Approx. 2-6 hours). If in doubt, perform an adhesion test.

Beat the product before use with the help of a low-speed electric stirrer (300-400 rpm) to avoid the inclusion of air in the mixture.

Mix the product with EPDM or rubber granules at a ratio of 9:1 by weight. The exact proportion will depend on the amount of dust contained in the granules, which should be reduced to a minimum.

The mixing time is at least 4 minutes depending on the size of the batches and the type of agitator used. If you beat too much, occluded air bubbles may appear.

The product is presented ready for use. If a solvent is required, use FUTURSOLVENT-001.

Apply with trowel. Spread the material previously mixed with the aggregate using a trowel or ruler for spreading.

Yield:6-10%

Dry to the touch: Dry by humidity and ambient temperature

Light traffic: 2 days

Pedestrian traffic: 24 hours

Total curing: 7 days

Once the container is opened, we recommend its complete consumption.

Stable for 12 months from its manufacturing date, in its original, well-closed and undamaged container. Store in a dry and cool place at temperatures between +5°C and +25°C.

To clean materials and utensils, use FUTURSOLVENT-001 before the product hardens. Once the product has hardened it can only be removed by mechanical means.

APPLICATIONS

Very useful in all types of construction companies, quick repair contracts, general masonry, community maintenance, building repair and restoration, etc.

Applicable in: Playgrounds, Athletics tracks, Walkways, Artificial beaches, Door entrances to avoid tripping, Outdoor recreation areas.

Supported media:

Concrete, asphalt.

For other supports, carry out tests to verify their adhesion.

For particularities or special support conditions, consult the Technical Department.

The information and recommendations we provide are based on our Research and experience and we believe they are correct. Since the application of the products by our Clients is beyond our control, we cannot assume responsibilities arising from misuse of our products.